
T309 timer

The T309 timer provides a 90-second wait interval after a D-channel failure before the B-channels are cleared. When the D-channel is reestablished before T309 expires, a status inquiry message is sent by the network side. The user side responds with a status message to report the status of the queried channel. If the call state matches, the call is preserved; otherwise, a release message is sent to the user side, clearing the call. If the user side does not respond with the status message before the T309 timer expires, the call is cleared.

If T309 expires before the D-channel is reestablished, indicating that there is a serious problem with the link, Meridian 1 clears all calls internally and sends a global restart when the D-channel is reestablished.

For a Meridian 1 to Meridian 1 interface, the T309 timer is not used. The Meridian 1 keeps active calls established as long as possible and lets B-channel users decide when a call is to be dropped. The Meridian 1 specified as the network side sends the status inquiry message on all active calls when the D-channel is reestablished.

Operating parameters

Prior to X11 release 17, the Meridian 1 does not support the T309 and sending the status inquiry message for North American interfaces. All active calls are cleared with a global restart whenever a D-channel is reestablished.

The compatibility checking by means of the status inquiry message might leave some channels with mismatched states, which are cleared only when trying to reuse the channel.

T309 is dependent on both network and user sides. If a side does not have a T309 timer, it sends a global restart when the D-channel is reestablished.

AT&T 4ESS and 5ESS do not clear transient calls when the D-channel fails. If T309 expires, the calls are not cleared until the D-channel is reestablished or the call is cleared by the far end.

Feature interactions

- Integrated Services Access

Integrated Services Access (ISA) tracks the number of active calls. Prior to X11 release 17, the counter for active calls is reset when the D-channel comes back. With the implementation of T309, active calls are preserved if the 90 seconds does not expire; the counter for active calls is not reset since active calls need to be tracked during the D-channel failure and reset.

Feature packaging

The T309 and status inquiry message are included in basic ISDN PRI/ISL functionality. No additional packages are required.

Feature implementation

The T309 timer is preset at 90 seconds and cannot be service changed.